

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P324874

Luminaire Tested: **GAN-SA0A-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37759 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

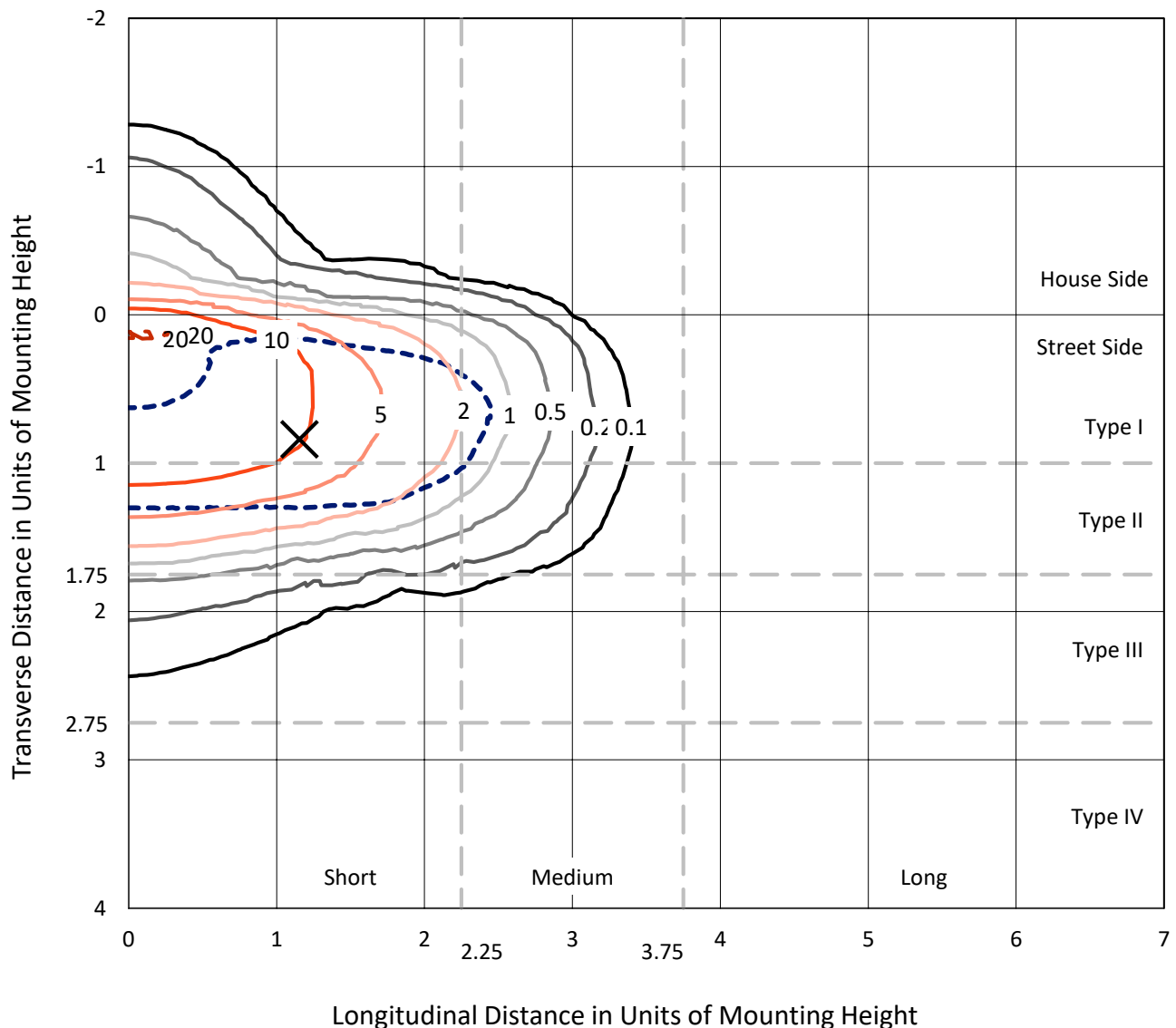
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

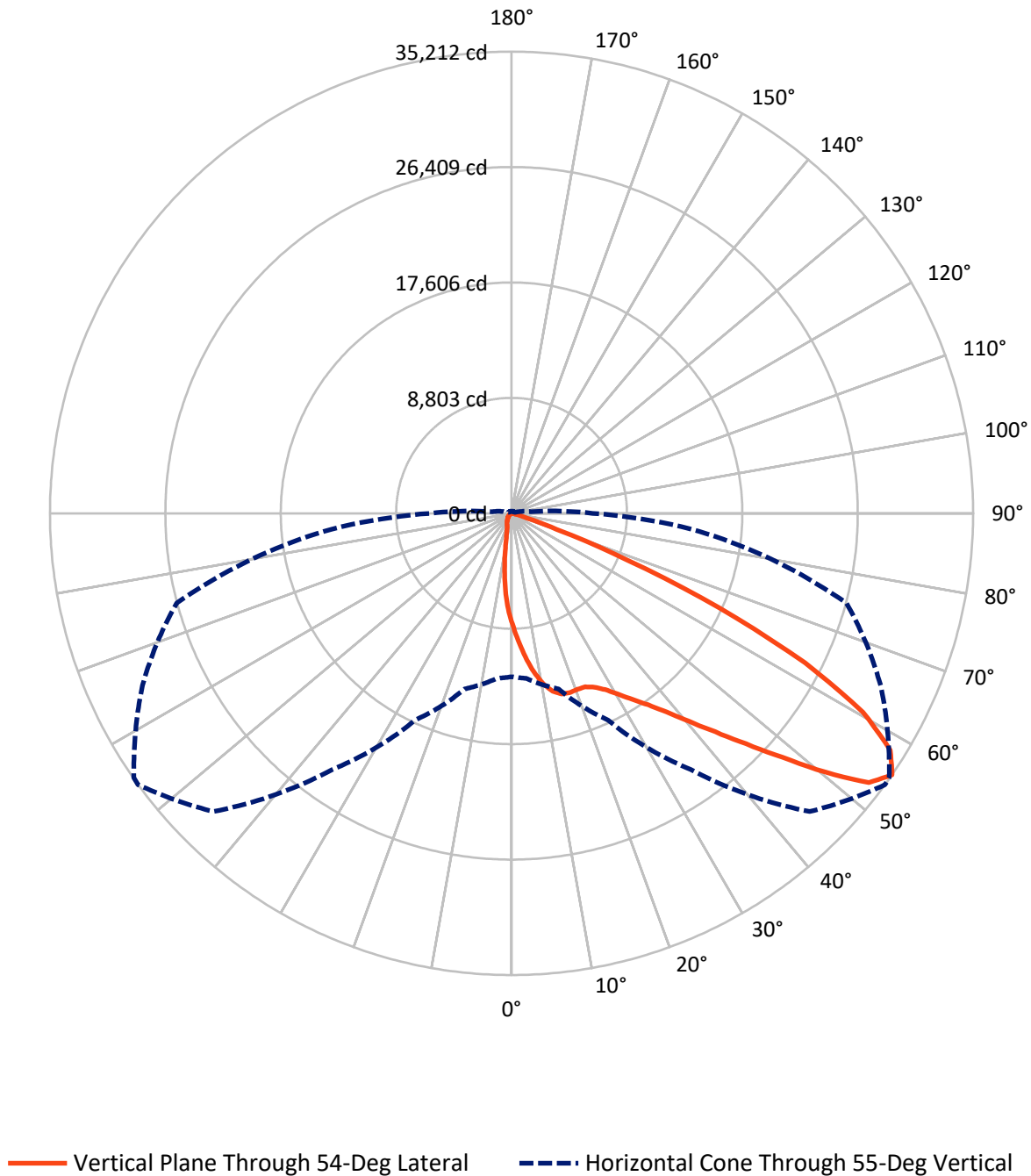
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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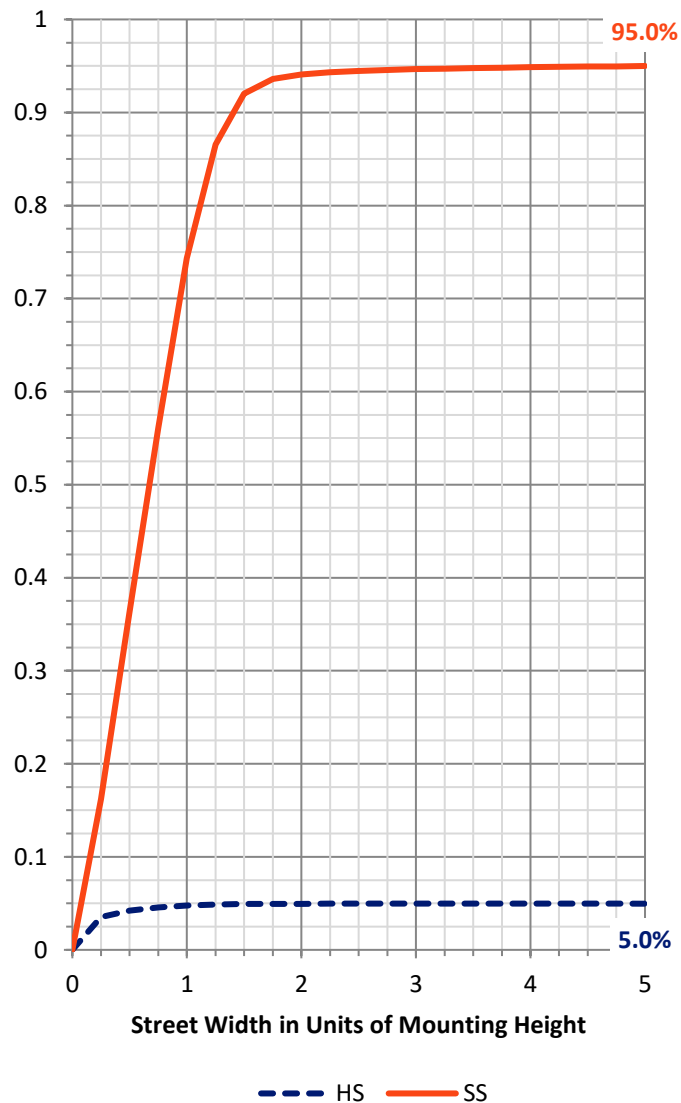
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1883.9	0.0	1883.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35875.1	0.0	35875.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	37759.0	0.0	37759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.7	2.1
10°-20°	2135.8	5.7
20°-30°	3646.4	9.7
30°-40°	5851.9	15.5
40°-50°	9351.3	24.8
50°-60°	10020.2	26.5
60°-70°	5144.7	13.6
70°-80°	779.3	2.1
80°-90°	50.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	37759.0	100.0
0°-180°	37759.0	100.0

Coefficient of Utilization



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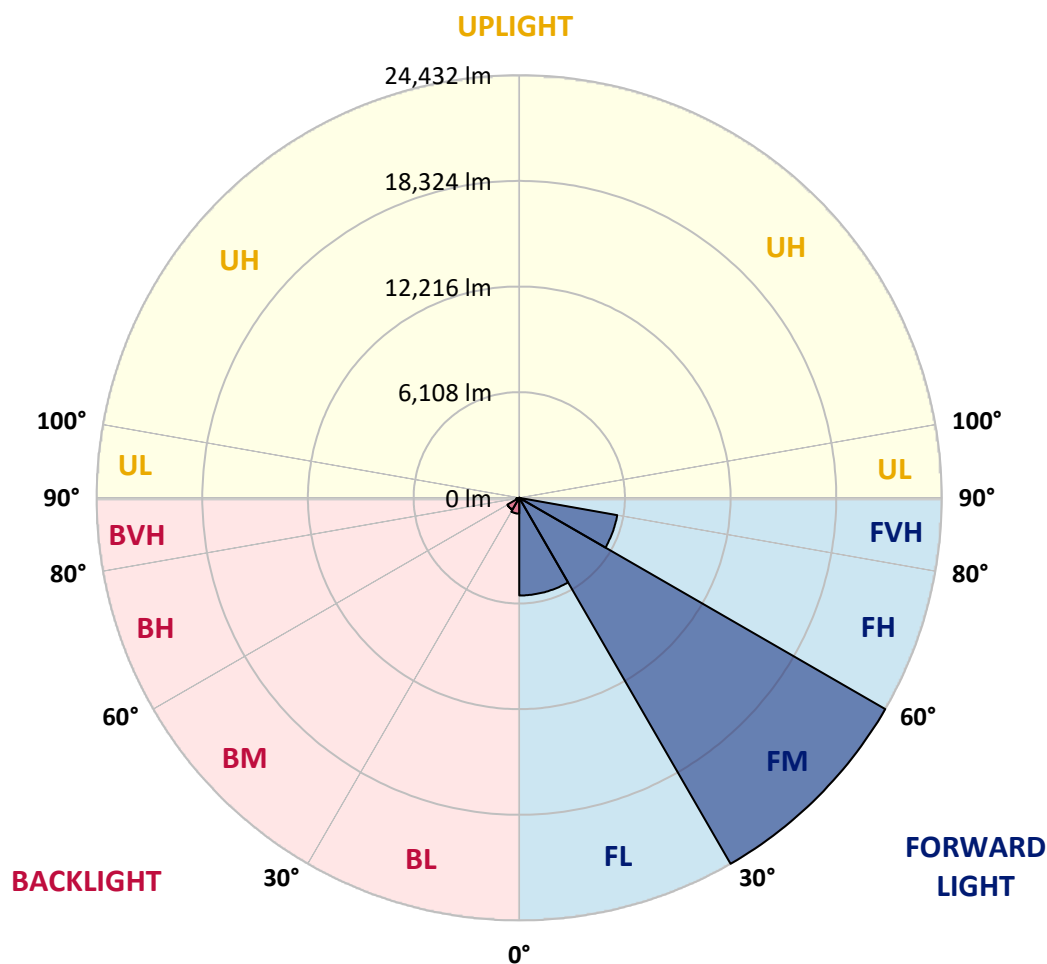
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5644.3	14.9			
FM	(30°-60°)	24431.7	64.7			
FH	(60°-80°)	5750.3	15.2			G3/7500
FVH	(80°-90°)	48.7	0.1			G1/100
BL	(0°-30°)	916.6	2.4	B2/1000		
BM	(30°-60°)	791.6	2.1	B1/1000		
BH	(60°-80°)	173.6	0.5	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5
2.5°	10612.2	10454.0	10458.9	10387.2	10124.6	9919.2	9705.6	9655.0	9322.4	8973.4	8637.5
5°	12446.7	12330.9	12303.2	12164.6	11799.3	11412.9	10998.7	10902.5	10251.8	9537.6	8834.8
7.5°	13389.2	13390.8	13368.0	13317.4	13089.1	12714.1	12208.6	12107.5	11222.1	10150.7	9040.3
10°	13115.2	13177.2	13304.4	13472.4	13646.8	13599.5	13219.6	13128.3	12166.2	10799.7	9268.6
12.5°	12476.0	12484.2	12626.0	12901.6	13403.9	13919.1	13925.7	13894.7	13068.0	11478.1	9519.7
15°	12158.1	12189.0	12241.2	12419.0	12895.1	13720.2	14310.5	14354.5	13894.7	12198.8	9787.1
17.5°	12366.8	12410.8	12366.8	12388.0	12663.6	13405.5	14377.4	14489.9	14617.1	12911.4	10039.9
20°	12932.6	12973.4	12895.1	12808.7	12862.5	13314.2	14330.1	14481.7	15182.9	13544.1	10251.8
22.5°	13695.7	13712.1	13593.0	13451.2	13412.0	13624.0	14369.2	14525.7	15636.2	14116.5	10385.5
25°	14535.5	14550.2	14401.8	14238.8	14145.8	14232.2	14690.4	14807.8	16035.7	14662.7	10462.2
27.5°	15450.3	15463.4	15277.5	15076.9	14969.3	14972.5	15220.4	15346.0	16461.3	15285.6	10524.2
30°	16417.3	16410.8	16239.5	15960.7	15823.7	15820.5	15983.5	16110.7	17077.7	16084.6	10608.9
32.5°	17503.3	17490.2	17247.3	16901.6	16746.7	16769.5	16914.6	16988.0	17842.5	16935.8	10760.6
35°	18933.4	18895.9	18529.0	18100.1	17814.7	17806.6	17928.9	17987.6	18817.6	17966.4	11013.3
37.5°	20789.0	20754.8	20257.4	19634.5	19233.4	19083.4	19228.5	19303.5	20208.5	19288.8	11419.4
40°	22618.6	22584.4	22289.2	21718.5	21100.5	20740.1	20854.3	20934.2	21945.2	20893.4	11931.4
42.5°	23880.7	23910.1	24012.8	24060.1	23481.2	22724.6	22776.8	22859.9	23769.8	22608.8	12516.8
45°	24213.4	24277.0	24857.5	25997.3	26214.2	25623.9	25077.6	25123.3	25623.9	24324.3	13102.2
47.5°	23213.8	23331.2	24451.5	26571.3	28407.4	28824.8	27791.0	27730.7	27402.9	25711.9	13518.0
50°	20942.3	21049.9	22501.2	25636.9	29072.7	31880.6	31042.5	30864.8	28963.4	26541.9	13664.8
52.5°	17654.9	17785.4	18964.3	22695.3	27818.7	33243.9	34121.1	33972.8	30108.1	26607.2	13689.2
55°	12467.9	12626.0	13873.5	17394.0	23844.9	32159.5	35212.0	35168.0	31058.8	26434.3	13741.4
57.5°	7006.9	7121.0	8466.3	11150.3	17464.2	28011.1	34072.2	34364.1	31632.8	26134.3	13819.7
60°	3111.3	3142.2	3838.5	5550.7	10224.1	21407.0	30809.3	31301.8	31140.3	25733.1	13951.8
62.5°	1725.2	1699.1	1699.1	2307.4	4443.5	13252.2	25123.3	25937.0	29038.4	25258.6	13958.3
65°	1351.8	1327.3	1257.2	1267.0	1692.6	5881.7	17397.3	18843.7	25046.6	23867.7	13488.7
67.5°	1146.3	1125.1	1055.0	1027.3	1051.8	1940.5	9558.8	11060.6	19005.1	20252.6	11683.5
70°	968.6	953.9	918.1	883.8	821.8	958.8	3657.5	4678.3	11711.3	13472.4	7975.5
72.5°	779.4	772.9	786.0	756.6	681.6	639.2	1250.7	1514.9	5260.4	6012.2	3285.7
75°	671.8	668.6	675.1	645.7	560.9	445.2	635.9	694.7	1483.9	1470.8	665.3
77.5°	437.0	441.9	559.3	546.3	482.7	296.8	329.4	355.5	450.1	337.5	202.2
80°	278.8	275.6	283.7	453.3	433.8	226.7	164.7	172.8	216.9	166.3	97.8
82.5°	169.6	166.3	185.9	212.0	218.5	158.2	101.1	102.7	135.3	107.6	52.2
85°	14.7	19.6	112.5	104.4	75.0	48.9	48.9	52.2	71.7	63.6	29.4
87.5°	0.0	0.0	19.6	29.4	16.3	17.9	17.9	19.6	27.7	27.7	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5	8456.5
2.5°	8463.0	8293.4	7951.0	7621.6	7342.8	7073.7	6767.2	6463.9	6322.0	6264.9	6206.2
5°	8477.7	8128.7	7422.7	6711.7	5974.7	5311.0	4745.2	4164.7	3874.4	3747.2	3688.5
7.5°	8497.3	7965.7	6824.2	5630.6	4443.5	3543.4	2757.4	2251.9	2033.4	1999.2	1914.4
10°	8500.5	7768.4	6129.6	4437.0	2979.2	2136.1	1643.7	1382.8	1286.6	1270.3	1242.5
12.5°	8507.1	7535.2	5358.3	3285.7	1986.1	1428.4	1188.7	1102.3	1076.2	1074.6	1074.6
15°	8526.6	7290.6	4557.6	2367.7	1426.8	1131.7	1043.6	1009.4	999.6	1004.5	1002.8
17.5°	8526.6	7002.0	3771.7	1764.4	1152.9	1017.5	968.6	945.8	942.5	947.4	949.0
20°	8464.7	6651.4	3050.9	1373.0	1022.4	944.1	900.1	878.9	870.8	874.0	875.7
22.5°	8316.3	6220.9	2463.9	1136.6	936.0	877.3	830.0	797.4	784.3	786.0	786.0
25°	8084.7	5710.5	1927.4	983.3	865.9	805.5	750.1	712.6	704.4	702.8	706.1
27.5°	7787.9	5146.3	1534.4	865.9	782.7	725.6	670.2	639.2	632.7	634.3	635.9
30°	7496.1	4560.9	1209.9	766.4	689.8	635.9	593.6	578.9	578.9	583.8	585.4
32.5°	7228.6	3998.3	957.2	680.0	606.6	557.7	533.2	531.6	539.7	543.0	544.6
35°	6998.7	3478.2	792.5	613.1	541.4	499.0	490.8	497.3	507.1	513.7	515.3
37.5°	6835.6	3013.4	693.0	557.7	490.8	456.6	454.9	468.0	481.0	495.7	499.0
40°	6767.2	2620.4	624.5	508.8	450.1	424.0	419.1	437.0	461.5	482.7	485.9
42.5°	6710.1	2299.2	565.8	461.5	417.4	379.9	378.3	401.1	430.5	451.7	456.6
45°	6661.2	2041.6	512.0	410.9	375.0	326.1	331.0	360.4	383.2	406.0	410.9
47.5°	6560.1	1829.6	453.3	357.1	309.8	278.8	288.6	314.7	332.7	366.9	371.8
50°	6379.1	1656.7	393.0	291.9	252.7	241.3	256.0	273.9	296.8	326.1	329.4
52.5°	6256.8	1526.3	340.8	244.6	208.7	212.0	226.7	233.2	246.2	257.6	254.4
55°	6186.6	1454.5	298.4	212.0	177.7	187.5	190.8	182.6	176.1	164.7	159.8
57.5°	6178.5	1389.3	265.8	184.3	156.5	161.4	150.0	122.3	99.5	86.4	83.2
60°	6165.5	1309.4	239.7	154.9	138.6	132.1	107.6	66.9	47.3	44.0	44.0
62.5°	6023.6	1185.5	220.1	130.5	117.4	99.5	62.0	31.0	26.1	27.7	27.7
65°	5571.9	1012.6	200.6	106.0	92.9	71.7	31.0	17.9	9.8	11.4	11.4
67.5°	4737.0	807.2	179.4	81.5	70.1	45.7	17.9	8.2	0.0	0.0	0.0
70°	3171.6	500.6	151.6	57.1	45.7	27.7	13.0	1.6	0.0	0.0	0.0
72.5°	1216.5	270.7	122.3	34.2	29.4	19.6	8.2	0.0	0.0	0.0	0.0
75°	273.9	177.7	84.8	24.5	21.2	13.0	3.3	0.0	0.0	0.0	0.0
77.5°	104.4	128.8	48.9	16.3	14.7	8.2	0.0	0.0	0.0	0.0	0.0
80°	50.5	76.6	22.8	9.8	8.2	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	26.1	29.4	9.8	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.7	14.7	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	4.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)